

IN THE CLAIMS

Please amend Claims 1-10, 12-15, and 22 as follows.

1. (Currently Amended) An image reading apparatus for reading an image of a document, comprising:

an image reading unit configured to read the image of the document;

an illuminating unit configured to illuminate the document;

a plurality of mirrors configured to reflect light from the document; and

a housing configured to support the plurality of mirrors, said housing including a mirror supporting part including a hole for at least one of the plurality of mirrors,

wherein at least one of the plurality of mirrors comprises:

a surface;

a curved reflecting mirror surface having two longitudinal ends and two lateral edges
surface, opposite from the surface;

first and second longitudinal portions, each positioned adjacent one of the
longitudinal ends of the reflecting mirror surface and being contiguous therewith so as to extend
therefrom;

two contact portions, disposed on a side of the mirror on which the curved reflecting mirror surface is provided and contacting the mirror supporting part of the housing, configured and positioned to determine the position of the curved reflecting surface in a direction normal to the surface thereof when the two contact portions contact the mirror supporting part of the housing; and

a protuberance projection, separate from the reflecting mirror surface, positioned adjacent one of the lateral edges of the reflecting mirror surface, and projecting into the hole of the mirror supporting part, and disposed at a position corresponding to a reference axis of the curved reflecting mirror surface, being disposed at a position corresponding to a reference axis of the curved reflecting mirror surface, wherein the protuberance of said mirror is inserted in a concave portion of the housing

wherein the reflecting mirror surface, the first and second longitudinal portions, and the projection are integrally formed as part of the mirror.

2. (Currently Amended) An image reading apparatus according to claim 1, further comprising two wherein the contact portions each provided on a different one of the first and second longitudinal portions and each having ~~the at least one of the mirrors have~~ a flat portion.

3. (Currently Amended) An image reading apparatus according to claim 2 ⁺, wherein the curved reflecting mirror surface and the contact portions of the mirrors are formed integrally.

4. (Currently Amended) An image reading apparatus according to claim 2 ⁺, wherein the two contact portions comprise ~~at least one of the mirrors~~ comprises longitudinal position determining parts and the projection comprises ~~a~~ lateral position determining part parts for respectively and independently determining a longitudinal direction position and a lateral direction position of said at least one mirror.

5. (Currently Amended) An image reading apparatus according to claim 4, wherein either the longitudinal position determining parts or the lateral ~~direction~~ position determining part parts provided on the at least one of the mirrors are formed on flat portions.

6. (Currently Amended) An image reading apparatus according to claim 4, wherein the longitudinal position determining parts and the lateral position determining part parts provided on the at least one of the mirrors determine the position of a reference axis of the curved reflecting surface of the at least one of the mirrors.

7. (Currently Amended) An image reading apparatus according to claim 4, wherein the curved reflecting surface, and the longitudinal position determining parts and the lateral position determining part parts are formed integrally for the at least one of the mirrors.

8. (Currently Amended) An image reading apparatus according to claim 4, wherein the housing comprises ~~respective~~ engaging parts with which the longitudinal position determining parts ~~and the lateral position determining parts~~ of the at least one of the mirrors engage, and when the engaging parts, and the longitudinal position determining parts ~~and the lateral position determining parts~~ engage with each other, each portion of the engaging parts can slide in a direction orthogonal to a position determining direction, thereby allowing thermal expansion of the at least one of the mirrors.

9. (Currently Amended) An image reading apparatus according to claim 2 ±, further comprising a spring configured and positioned to press the two contact portions against the housing to determine the position of the curved reflecting mirror surface.

10. (Currently Amended) An image reading apparatus according to claim 2 ±, wherein the plurality of mirrors, each of which comprising the curved reflecting mirror surface and the two contact portions, is configured to form the image of the document onto the image reading unit, and a reference-axis ray has a different incident direction and reflected direction with the curved reflecting surface.

11. (Previously Presented) An image reading apparatus according to claim 1, further comprising a scanning unit configured to move the housing to perform scanning of the image of the document, wherein the housing further supports the image reading unit and the illumination unit.

12. (Currently Amended) An image reading apparatus according to claim 2 ±, wherein the two contact portions are adjacent to the curved reflecting mirror surface.

13. (Currently Amended) An image reading apparatus according to claim 2 ±, wherein the curved reflecting surface is between one of the two contact portions and the other of the two contact portions.

14. (Currently Amended) An image reading apparatus for reading an image of a document, comprising:

- an image reading unit configured to read the image of the document;
- an illuminating unit configured to illuminate the document;
- a mirror configured to reflect and guide light from the document to said image reading unit, said mirror including a curved reflecting mirror surface having two longitudinal ends and two lateral edges; and
- a housing configured to support said mirror, said housing including a concave portion, wherein said mirror comprises a projection, separate from the reflecting mirror surface, positioned adjacent one of the lateral edges of the reflecting mirror surface and projecting part being disposed at a position corresponding to a reference axis of the curved reflecting mirror surface, and
- wherein the projection ~~projecting part~~ of said mirror is inserted in the concave portion of the housing.

15. (Currently Amended) An image reading apparatus according to claim 14, wherein the projection ~~projecting part~~ of said mirror is disposed at a center of said mirror in a longitudinal direction thereof.

16. (Previously Presented) An image reading apparatus according to claim 14, wherein said mirror is fixed on said housing by a pressure force of a blade spring.

17. (Previously Presented) An image reading apparatus according to claim 14, wherein said mirror is bonded to said housing.

18. (Previously Presented) An image reading apparatus according to claim 14, wherein said mirror is screwed to said housing.

19. (Previously Presented) An image reading apparatus according to claim 14,
further comprising a scanning unit configured to move said housing to perform scanning of the image of the document, and
wherein said housing further supports said image reading unit and said illumination unit.

20. (Previously Presented) An image reading apparatus according to claim 14,
wherein said housing includes a mirror supporting part,
wherein said mirror further comprises contact portions on both sides of the curved reflecting mirror surface, said contact portions being disposed on a side of the mirror on which the curved reflecting mirror surface is disposed, and
wherein the contact portions of said mirror contact the mirror supporting part of the housing.

21. (Previously Presented) An image reading apparatus according to claim 20, wherein the curved reflecting surface and the contact portions of said mirror are formed integrally.

22. (Currently Amended) An image reading apparatus for reading an image of a document, comprising:

an image reading unit configured to read the image of the document;

an illuminating unit configured to illuminate the document;

a mirror configured to reflect and guide light from the document to said image reading unit, said mirror including a curved reflecting mirror surface having two longitudinal ends and two lateral edges;

first and second longitudinal portions, each positioned adjacent one of the longitudinal ends of the reflecting mirror surface and being contiguous therewith so as to extend therefrom;
and

a housing configured to support said mirror, said housing including a concave portion;
and portion;

wherein said mirror comprises;

first and second longitudinal portions, each positioned adjacent one of the longitudinal ends of the reflecting mirror surface and being contiguous therewith so as to extend therefrom; and

a projection, separate from the reflecting mirror surface, positioned adjacent one of the lateral edges of the reflecting mirror surface, and inserted into the concave portion of the housing, and disposed at a position corresponding to a reference axis of the curved reflecting mirror surface.

wherein the reflecting mirror surface, the first and second longitudinal portions, and the projection are integrally formed as part of the mirror protuberance being disposed at a

position corresponding to a center of the curved reflecting mirror surface, and wherein the protuberance of said mirror is inserted in the concave portion of the housing.